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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/609,229	06/27/2003	Mohammad H. El-Haj	MS302288.02	7545

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MICROSOFT CORPORATION
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EXAMINER

WU, QING YUAN

ART UNIT	PAPER NUMBER
2194	

MAIL DATE	DELIVERY MODE
01/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/609,229

Applicant(s)

EL-HAJ, MOHAMMAD H.

Examiner

Qing-Yuan Wu

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 December 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 6, 7, 10, 11, 13, 14, 18, 20-22, 25, 26, 29, 30, 32, 33 and 37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-7, 10-11, 13-14, 18, 20-22, 25-26, 29-30, 32-33, and 37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

WILLIAM THOMSON
SENIOR PATENT EXAMINER

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-3, 6-7, 10-11, 13-14, 18, 20-22, 25-26, 29-30, 32-33, and 37 are pending in the application.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/5/07 has been entered.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3, 6-7, 10-11, 13-14, 18, 20-22, 25-26, 29-30, 32-33, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patterson (U.S. Publication 2003/0236775) in view of Stein et al. (hereafter Stein) (U.S. Patent 5,896,495) and further in view of Ku et al. (hereafter Ku) (U.S. Patent 6,970,883).

5. Patterson and Stein were cited in the previous office action.

6. As to claim 20, Patterson teaches a method for interacting with a target software product having user interface functionality, comprising:

executing a script that involves interaction with the user interface functionality of the target software product [abstract, lines 5-8; pg. 1, paragraph 5]; and

interfacing with a manipulation tool library to carry out at least two functions specified in the script, wherein the at least two functions include [Fig.3; 440, Fig. 4; pg. 3, paragraph 32]:

searching for a user interface object using a selectable one of a plurality of different search strategies provided by the manipulation tool library [pg. 3, paragraph 37].

7. Patterson does not specifically teach event handling for executing a callback function upon the occurrence of a specified event caused by a firing of the user interface object, the callback function executing a prescribed function upon the occurrence of the specified event. However, Stein teaches executing a callback function upon occurrences of an event caused by a firing of a user interface object and as a result the callback function executing a prescribed function (i.e. sending a new message as a result of receiving an acknowledgement from the GUI program that it is ready to process a new message) [Stein, col. 5, lines 1-22 and 43-56; col. 2, lines 15-57]. It would have been obvious to one of an ordinary skill in the art at the time the invention was made, to have modified the teaching of Patterson with the teaching of Stein because the teaching of Stein can further enhances the teaching of Patterson by properly addressing the synchronization issue with GUI testing as being considered by Stein [Stein, col. 2, lines 39-57].

8. Furthermore, Patterson does not specifically teach wherein one of the selectable search strategies is a flag-based attribute search strategy that involves comparing a specified attribute value and qualifying flag information with information associated with the user interface object, wherein the flag information is configured to provide a filtering function in a search. However, Patterson disclosed a unique name string that contains a predetermined set of properties of a GUI object, the properties of the GUI object in the unique name are organized such that it is easy to extract the property names from the string name of the GUI object, and determine the closest matching GUI object based on the properties matched [pgs. 4-5, paragraphs 49-63]. In addition, Ku teaches a search strategy that involves searching an object repository by a string/keyword with additional searching criteria to filter the search [Ku, Fig. 4; col. 6, line 4-col. 7, line 6]. It would have been obvious to one of an ordinary skill in the art at the time the invention was made, to have modified the teaching of Patterson with the teaching of Ku to further improve or provide an alternative to the object searching capability of Patterson for searching for objects as being considered by Ku [Ku, col. 4, lines 50-56].

9. As to claim 21, Patterson as modified does not specifically teach interfacing with the target software product using a window-type interface and an accessibility interface. However, Patterson disclosed interfacing with the target software product through the graphical user interface objects and their underlying control functionality [pg. 2, paragraph 29, lines 1-4; pg. 3, paragraph 37, lines 3-5; pgs.3-4, paragraphs 38-42]. It would have been obvious to one of an ordinary skill in the art at the time the invention was made, to have modified the teaching of Patterson to include interfacing with the target software product using various interfaces because Patterson's disclosure of interfacing with user interface objects would applied to various

Art Unit: 2194

interfaces which implicitly interacts/interfaces with the target software.

10. As to claim 22, Patterson as modified teaches wherein one of the selectable search strategies is an SQL-type query string search strategy that involves comparing a specified string with information associated with the user interface object [pg. 3, paragraph 37, lines 9-21; pgs. 3-4, paragraphs 38-40].

11. As to claim 25, Patterson as modified teaches teach wherein another function of the manipulation tool library comprises event handling for blocking the execution of the script until the specified event or a second specified event has occurred within a specified timeout period [Stein, col. 5, lines 1-22; col. 2, lines 15-57].

12. As to claim 26, this claim is rejected for the same reason as claim 25 above.

13. As to claim 29, this claim is rejected for the same reason as claims 20 and 25 above.

14. As to claims 30 and 32-33, these claims are rejected for the same reason as claims 21-22 and 26 above.

15. As to claim 37, this claim is rejected for the same reason as claim 20 above.

16. As to claims 1-3 and 6-7, these claims are rejected for the same reason as claims 20-22 and 25-26 above.

17. As to claim 10, this claim is rejected for the same reason as claims 1 and 6 above.
18. As to claims 11 and 13-14, these claims are rejected for the same reason as claims 2-3 and 7 above.
19. As to claim 18, this claim is rejected for the same reason as claim 1 above.
20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. PG Publication No. 20020152095 to Jordon teach searching strategy the involve keyword search with additional criteria.

Response to Arguments

21. Applicant's arguments filed 12/5/07 have been fully considered but are moot in view of the new ground of rejection.
22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qing-Yuan Wu whose telephone number is (571) 272-3776. The examiner can normally be reached on 8:30am-6:00pm Monday-Thursday and alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on (571) 272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

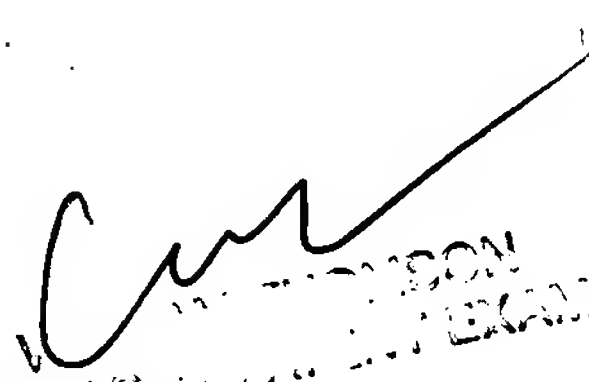
Art Unit: 2194

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Qing-Yuan Wu

Examiner

Art Unit 2194


SUPERVISOR
EXAMINER